

IN THE CLAIMS

1. (original) A bed foundation, comprising:

a rectangular top panel having opposite sides, opposite ends, and four corners;
a pair of side panels and a pair of end panels depending downwardly from opposite sides and ends of the top panel, respectively,
to form a box-like enclosure having an open lower end;

a corner support at each corner of the enclosure, each corner support having a lower face and a bore extending upwardly from the lower face of the corner support for receiving the end of a support leg for supporting the enclosure at a position raised above a floor surface; and

the panels and corner supports being of expanded rigid plastic foam material.

2. (original) The foundation as claimed in claim 1, wherein the top panel, side panels, end panels and corner supports are formed integrally in one piece.

3. (original) The foundation as claimed in claim 1, wherein the top panel, side panels, end panels and corner supports are formed separately.

4. (original) The foundation as claimed in claim 3, including securing devices for securing the top, side and end panels and corner supports together to form said box-like enclosure.

5. (original) The foundation as claimed in claim 1, wherein at least one cross brace extends between the side panels.

6. (original) The foundation as claimed in claim 5, including a leg mounting block secured to said cross brace, the leg mounting block having a downwardly facing mounting bore for mounting an additional support leg.

7. (original) The foundation as claimed in claim 1, wherein the side panels each have at least one opening.

8. (original) The foundation as claimed in claim 7, wherein the openings are rectangular.

9. (original) The foundation as claimed in claim 7, wherein the openings are circular.

10. (original) The foundation as claimed in claim 7, wherein the openings extend over at least 50% of the total surface area of the respective panel.

11. (original) The foundation as claimed in claim 1, wherein one end panel has horizontal slots for mounting of a head board.

12. (original) The foundation as claimed in claim 1, wherein the expanded rigid plastic foam material is selected from the group consisting of phenolic, urethane, and polyisocyanate rigid foam.

13. (original) The foundation as claimed in claim 12, wherein the foam is of the closed cell variety.

14. (original) The foundation as claimed in claim 12, wherein the foam has a density in the range from 5 to 20 pounds per cubic foot.

15. (original) The foundation as claimed in claim 1, wherein the top panel has a lower layer of the same foam material as the side and end walls, and an upper layer, the upper layer comprising a flexible foam layer.

16. (original) A bed foundation, comprising:

 a rectangular panel of expanded rigid plastic foam material, the panel having an upper face, opposite sides, opposite ends, and four corners;

 each corner having a lower face and a bore extending upwardly from the lower face; and

 a support leg mounted in the bore at each corner of the panel for supporting the panel at a spacing above a floor surface.

17. (original) The foundation as claimed in claim 16, further comprising a plurality of springs secured to the upper surface of the panel, and a cover enclosing the springs.

18. (original) The foundation as claimed in claim 16, wherein the panel is of uniform thickness and has flat upper and lower faces.

19. (original) The foundation as claimed in claim 16, wherein the panel has a lower face having a plurality of recesses.

20. (original) The foundation as claimed in claim 19, wherein the recesses are rectangular recesses extending parallel to the ends of the panel.

21. (original) The foundation as claimed in claim 16, further comprising a pair of side panels and a pair of end panels depending downwardly from opposite sides and ends of the rectangular panel, respectively, to form a box-like enclosure having an open lower end.

22. (original) The foundation as claimed in claim 16, wherein the expanded rigid plastic foam material is selected from the group consisting of phenolic, urethane, and polyisocyanate rigid foam.

23. (original) The foundation as claimed in claim 22, wherein the foam is of the closed cell variety.

24. (new) A bed foundation, comprising:

- a rectangular top panel having opposite sides, opposite ends, and four corners;
- a pair of side panels and a pair of end panels depending downwardly from opposite sides and ends of the top panel, respectively;
- the top panel, side panels and end panels together forming a box-like enclosure having an open lower end; and
- the enclosure being formed entirely of expanded rigid plastic foam material.

25. (new) The foundation as claimed in claim 24, wherein the top panel, side panels, and end panels are formed integrally in one piece.

26. (new) The foundation as claimed in claim 24, wherein the enclosure is formed of polyurethane rigid foam material.

27. (new) The foundation as claimed in claim 24, wherein the top panel has a plurality of openings.